SECTION-C

Note:Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Describe a psychrometer and the precautions to be taken while using psychrometer.
- Q.4 What is heat transfer? Explain various modes of heat transfer.
- Q.5 What is a boiler? Classify it.
- Q.6 What is the physical properties of food material? Give its applications.
- Q.7 What is Reynolds number? How is it important in case of Flow in pipe?

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4th Sem. / Food Technology Subject : Principles Of Food Engineering

Time: 3 Hrs. M.M.: 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Radiation
 - b) Pump
 - c) Absolute pressure
 - d) Separation
 - e) Thermal processing
 - f) Volatility
 - g) Sieving
 - h) Energy
 - i) Agitating
 - j) Thousand grains weight

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- k) MKS unit system means _____
- I) Bulk density
- m) Enthalpy
- n) Porosity
- o) Food engineering
- p) Distillation
- q) Diffusion
- r) Reverse osmosis.

SECTION-B

Note:Short answer type questions. Attempt any ten parts 10x4=40

- Q.2 i) What is thermal conductivity?
 - ii) What is an autoclave? How does it work?
 - iii) Write a note on scraped surface heat exchanger.
 - iv) Differentiate between U-tube and well type manometer.

- v) What is an evaporator? How an air conditioning evaporator works?
- vi) What is the importance of thermal properties of food?
- vii) What are supplementary units?
- viii) What are the fluid flow characteristics?
- ix) Differentiate between latent heat and specific heat.
- x) Give the principle of energy balance.
- xi) What is a pump? Enlist different types of pumps used in food industry.
- xii) What is pneumatic drier? Explain its working?
- xiii) What are the basic principles of material handling?
- xiv) Enlist different types of drier.
- xv) Name some good conductors of heat, some poor conductors.

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